kogan

32" LED TV (HD)

KALED32XXXYC

USER MANUAL

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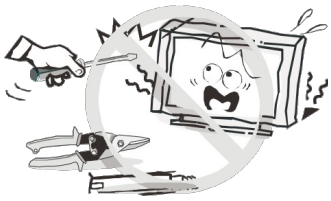
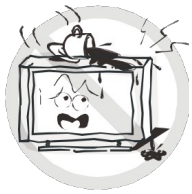
Safety Instructions

General Safety Instructions



Risk of electric shock. DO NOT OPEN!
Do not attempt to service the television yourself, as opening or removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to the Kogan customer support team.

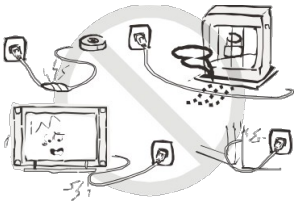


To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The television should not be exposed to dripping or or splashing, and no liquid filled objects such as vases should be placed on the case.

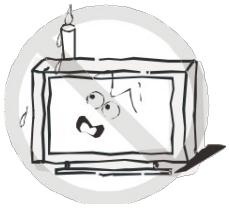
In the event of smoke, strange noises or a strange smell from the unit, you should follow these steps:

- Turn off the unit immediately.
- Disconnect the power plug from the power outlet.
- Contact the Kogan customer support team. Never attempt to make repairs yourself.

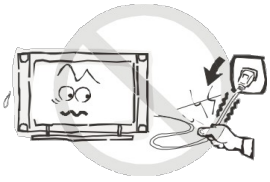
Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short-circuit parts that could result in a fire or electric shock. Never spill any liquids onto the set. Use special caution in households where children are present. The television is not suitable for children under 4 years old to operate.



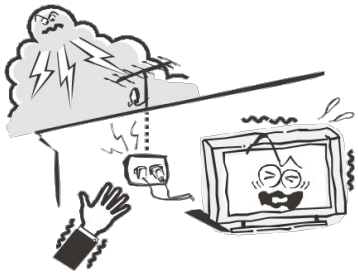
Power supply cords should be routed safely to prevent dangers due to damaged cords.
The mains plug is the main disconnect method, so it should be easily accessible and not be obstructed during use.



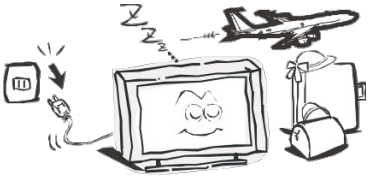
To avoid fires, no naked flame sources such as lit candles or burning incense should be placed onto the casing of the television.



Do not pull the plug out of a power outlet by pulling on the power cable. Always grasp the plug and pull.
Never touch the plug with wet hands.



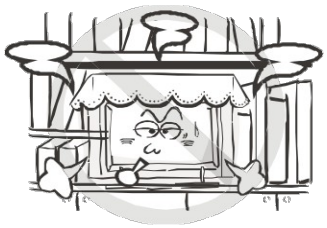
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits.
When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them may be fatal.



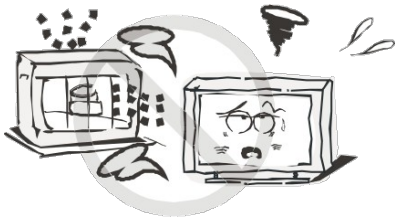
Always turn the set off when it is not being used.
Unplug the television from the power outlet when it will not be used for a long time or when there is an electrical storm.
Never touch the antenna cable during a lightning storm.

Excessive volume from earphones and headphones can cause permanent hearing loss. Always monitor the volume of noise from these devices, especially when children are using them.

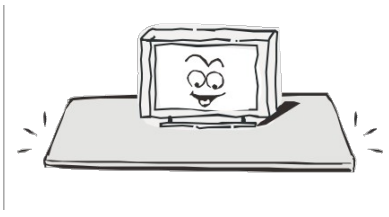
Installation



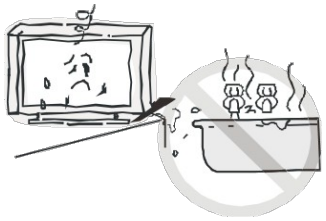
Ventilation should not be impeded or limited by covering the ventilation slots with items such as newspapers, tablecloths, curtains etc..
At least 10cm of space should be left around the apparatus for sufficient ventilation.



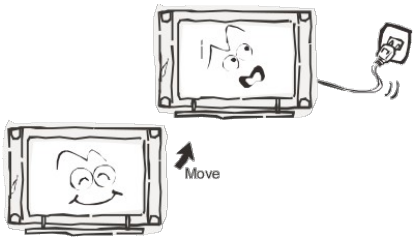
The television should be situated away from heat sources such as radiators, heaters, stoves or other products that product heat.
Place the television in a position where the screen is not exposed to direct sunlight. It is best to have soft indirect lighting while watching, and you should avoid a completely dark viewing environment and reflections to avoid eye fatigue.
Keep the product away from high magnetic fields (such as near an amplifier speaker) to avoid affecting the tint.



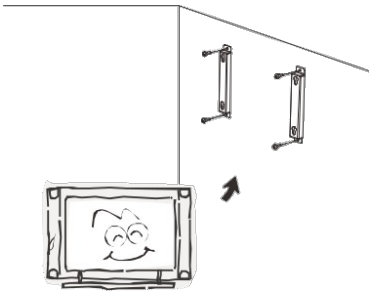
Do not place the television on an unstable table, stand or shelf. The set may fall, causing serious injury as well as damage to the television itself.
If moving the television on a cart, move the unit with care as sudden stops and starts may cause the television to overturn.



Do not place this television near water, for example near a bathtub, wash bowl, kitchen sink, laundry tub, swimming pool or in a damp basement etc..



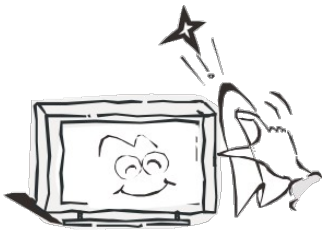
When moving the television to a warm location from a cold location, allow some time for any dew or condensation inside the television to evaporate fully before you turn the unit on.



To prevent injury, the television must be securely attached to the floor/wall in accordance to the supplied installation instructions.

Cleaning

Unplug the television from the power supply before cleaning. Do not use any liquid cleaners or harsh chemicals. Use a soft, damp cloth.



Installation

Thank you for purchasing this 32" HD LED TV. Before connection and operation of this product, please read through this user manual carefully, and keep a copy of the manual handy for future reference.

Remove the TV carefully from its packaging, taking care not to apply any pressure to the front of the screen. Some accessory items may be located in cut-out sections of the internal packaging, so take care not to miss these items and discard them by mistake. Once all items are removed from the packaging, use the list below to check that nothing is missing. If any items appear to be missing, contact the Kogan.com customer support team.

- 32" LED TV x 1
- Base stand assembly x 2
- Remote control x 1
- Pack of four 26mm screws x 1
- Pack of two AAA batteries x 1
- Pack of four M4 screws x 1

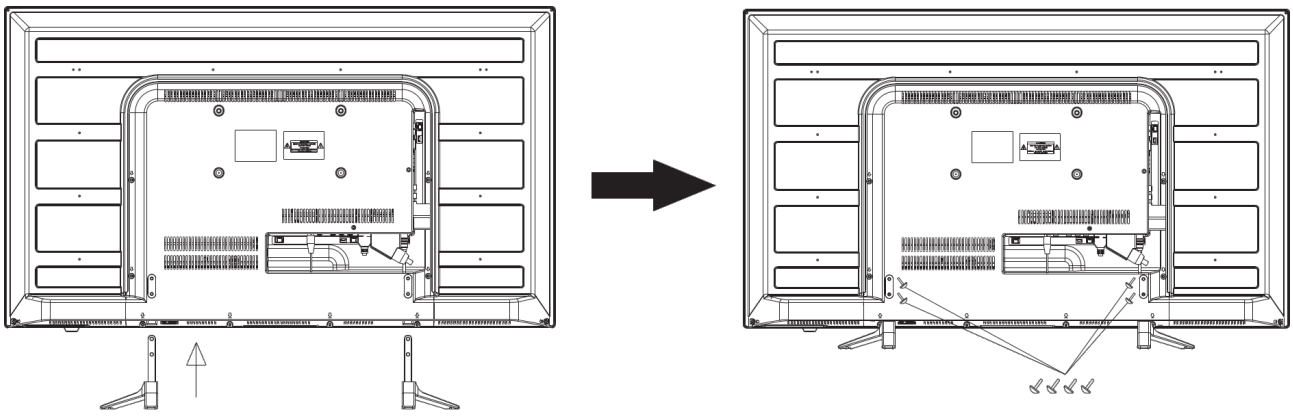
Once all accessory items have been accounted for, prepare a location where you can attach the base stands to the bottom of the TV. You will need to arrange a soft cloth that is large enough to cover the front face of the TV, as well as a Philips head screwdriver to attach the base stands.

Before proceeding to the Getting Started section of this manuals, please continue reviewing this Installation chapter to ensure that your TV is correctly connected to your TV antenna and related AV equipment (eg. DVD or Blu-ray player, amplifier, sound bar etc).

Base Stand Assembly Instruction

Prepare to place the TV with the display side down onto a flat surface. Due to the size and weight of this TV, the use of 2 people is recommended when moving it. Ensure the table or desk you use provides a flat, totally clean surface, and use a soft cloth between the face of the TV and the table to help protect the TV's screen.

1. Identify the 2 rectangular shaped holes in the bottom panel of the TV, located approximately 24cm from each side of the TV. These holes accept the rectangular section of the metal desk stands, which are then held in place by 26mm long screws.
2. One each desk stand, identify the longer leg of the stand, then slide the rectangular section of the desk stands into the TV so that the longer leg is facing towards the front of the TV.
3. Insert the 26mm long screws into the holes in the rear of the TV that line up with the holes in the rectangular section of the metal desk stands, then tighten the screws firmly. You may need to slightly jiggle the metal base stands around in their holes to allow the screws to be correctly seated prior to being tightened.



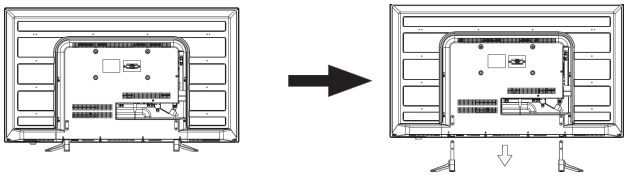
Wall Mounting Installation Guidelines

For wall mounting with an optional bracket, please read the following instructions in conjunction with the bracket's instructions. If you are not confident of your abilities to mount the TV, please seek assistance from qualified personnel. Kogan.com is not liable for any damage or injury caused by an incorrectly mounted television.

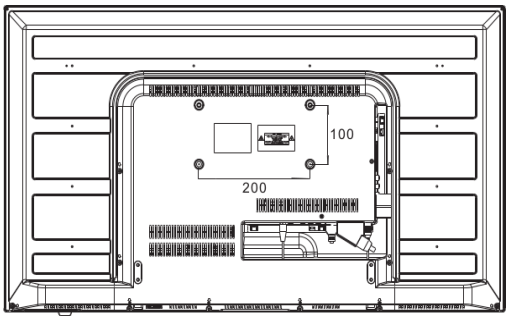
This television can be mounted as follows:

1. Place the LED television face down onto a solid surface. Please place some soft cloth material over the front of the screen to protect it from any damage. The screen is a fragile component and must be suitably protected when removing the base stand. Be sure that no hard or sharp objects can come into contact with the screen surface. Do not exert pressure on the front of the unit at any time, as this may damage the LED screen.

2. Remove the four long screws from the lower part of the television where the desk stands are attached to the TVs body and remove the stands (store the stands and screws in a safe location for future use).

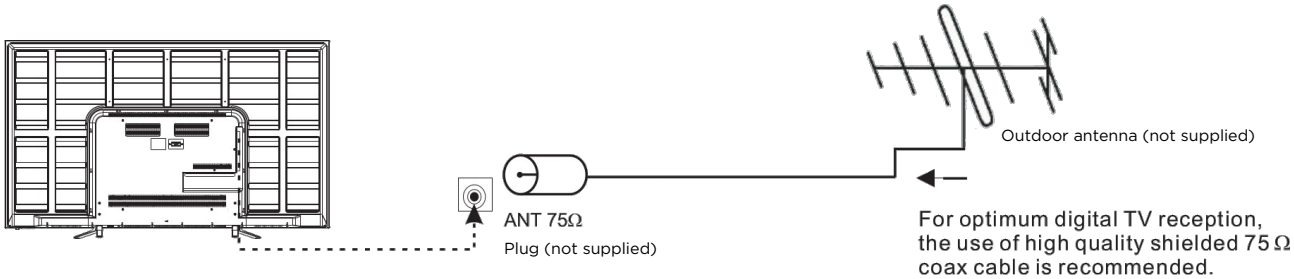


3. Use the four M4 screws provided with your TV to fix it onto your wall mounting bracket (not included), via the four VESA standard holes on the back of the television.



200mm x 100mm VESA
wall mounting hole spacing
and locations

Antenna

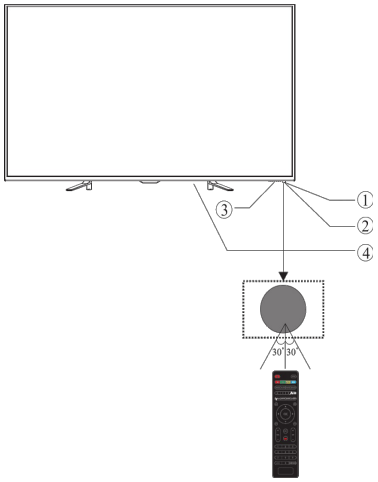

Outdoor antenna (not supplied)
ANT 75Ω
Plug (not supplied)
For optimum digital TV reception,
the use of high quality shielded 75 Ω
coax cable is recommended.

Aerial connections: IEC (PAL-type, female).
Input impedance: 75ohms unbalanced

Power

AC Input: 100-240V ~ 50/60Hz 45W
Note: Unwind the mains power cord to it's full length prior to initial use, and locate it away from other cables that will be connected to the TV.

Front Panel Layout



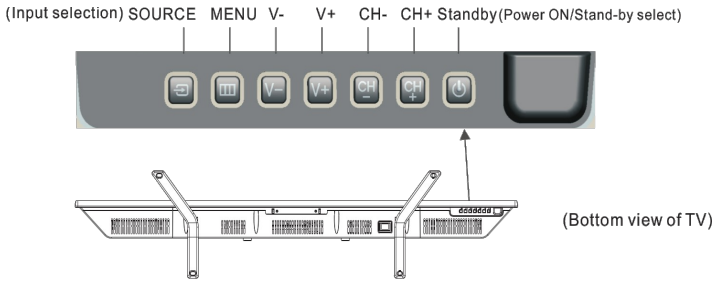
1. Remote control sensor
2. Power indicator LED:
   Red = stand-by
3. Keyboard (on bottom of TV)
4. Main power switch (on bottom mid right-hand panel of TV)

The remote control needs to be pointed directly within +/- 30° of the sensor on the front of the TV for reliable operation.

Note: there will be a 5-10 second delay between the power indicator of the TV changing colour and the TV responding.

Keyboard Layout

The TV is most easily operated using the supplied remote control until, but in the event that the remote is not available, there are various alternative controls for basic functions located on the bottom of the TV (when viewed from the front of the TV).



1. **Source**
   Displays the input source menu

2. **MENU**
   Displays the main MENU

3. **V-/V+**
   Adjusts the sound level.
   In MENU mode, press V+ or V- to adjust the item that you have selected.

4. **CH-/CH+**
   In TV mode, press CH+ or CH- to change the channel up or down.
   In MENU mode, press CH+ or CH- to select items.

5. **Standby**
   Once the TV's main power switch has been activated, press this button to turn the unit ON from STANDBY mode. Press it again to return the set back to STANDBY. This Standby button performs the same operation as the Power/Standby button on the Remote Control.

REAR AV Connections

When viewed from the rear of the TV, the following terminals/connections are visible (from left to right):

- AC mains power
- AV INPUT sockets – RCA type socket for Composite type VIDEO input, and RCA type sockets for Left and Right audio inputs.
- AV OUTPUT sockets – RCA type sockets for Composite type VIDEO output, and RCA type sockets for Left and Right audio outputs.

Note: these input and output sockets provide different functionality based on what mode the TV is in.

- During DVD playback (using the inbuilt player) and AV mode operation, the AV OUTPUT sockets provide both Video and Audio outputs.
- During DTV reception, USB playback and HDMI input operation, the AV OUTPUT sockets provide only Audio outputs.
- During AV mode operation, the AV INPUT sockets will disregard the audio inputs unless they are accompanied by a composite Video input signal.
- Some settings on the TV (eg. Mute control, Sound Menu settings etc) do not affect the audio signal from the AV OUTPUT socket.

SIDE AV Connections

When viewed from the side of the TV, the following connections are visible (from left to right):

- HDMI 1 input, HDMI 2 input, HDMI 3 input
- USB socket for HDTV record/playback
- VGA input (analogue, 15 pin D-type socket)
- PC Audio input
- Headphone output (3.5mm stereo socket)
- Coaxial digital Audio Output (RCA socket)
- RF (TV Antenna) Input

Note: when a HDMI port detects a DVI format signal, the matching audio signal is received through the PC audio input socket.

- Don't connect both a HDMI and an AV cable to the same device (eg. Blu-ray player), as this TV may detect the duplication and report an error.
- Use USB flash-drives or low-power portable USB hard-drives for HDTV recording.
- Only HDMI 1 input supports limited ARC (Audio Return Channel) functionality, and you must use an HDMI cable that supports ARC and CEC operation.
- All HDMI inputs support limited CEC (Consumer Electronics Control) functionality.
- The Coaxial digital Audio Socket provides an output during DTV, USB Playback and HDMI input operation. The format of the digital output is set in the Sound menu.

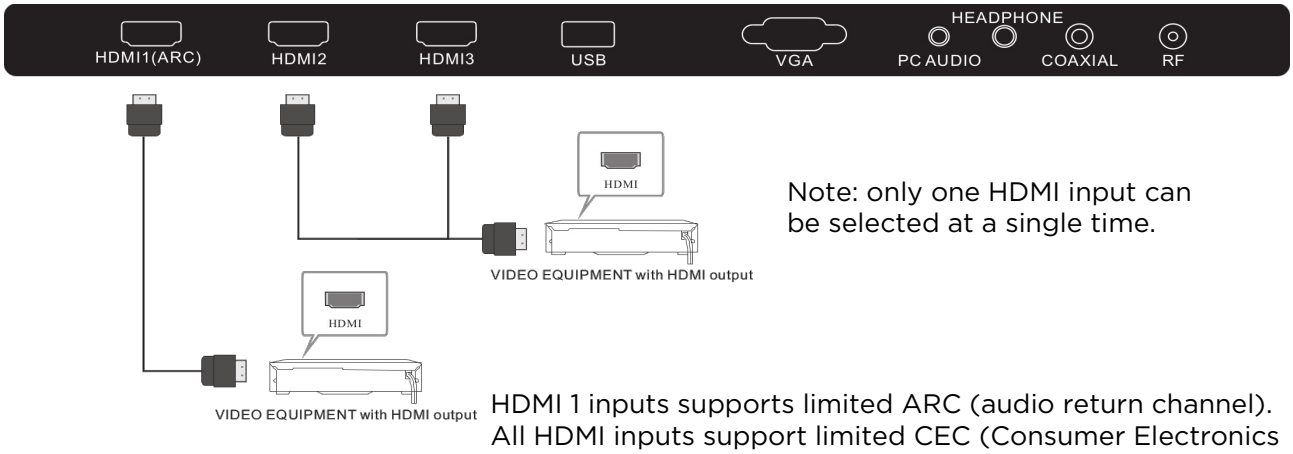
AV EQUIPMENT Connections

You can use the input and output terminals on the TV set as follows for basic accessory inter-connections.

HDMI (basic)

HDMI is a digital connection system that can carry both video and audio information. Using HDMI connections to this TV is recommended where accessory equipment can support higher resolution modes (such as 1080i/1080p) from products such as upscaling DVD players, Blu-ray players and high-performance gaming consoles.

For basic HDMI installations, where an external surround sound processor/amplifier is not being used, connect your accessory equipment directly to the HDMI sockets on this TV using high quality HDMI certified cabling that supports ARC and CEC operation. All the HDMI inputs support limited HDMI CEC (Consumer Electronics Control) functionality.



Note: only one HDMI input can be selected at a single time.

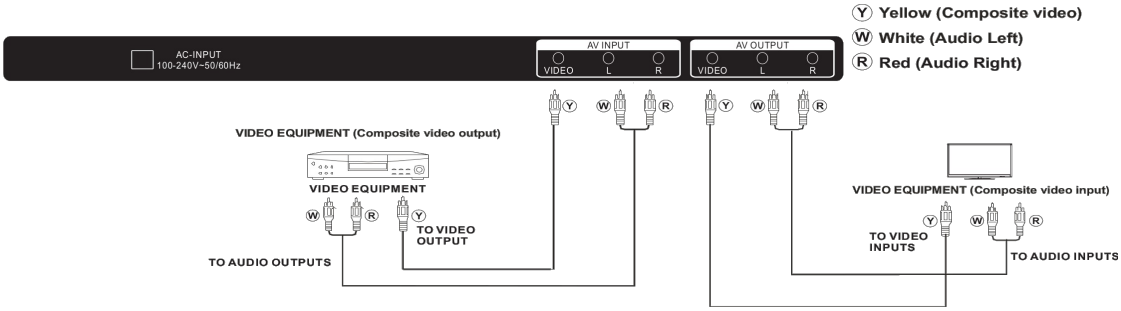
HDMI 1 inputs supports limited ARC (audio return channel). All HDMI inputs support limited CEC (Consumer Electronics Control) operation.

HDMI (advanced)

When using a Surround/AV amplifier system, there are numerous connection possibilities, depending on the capabilities of the amplifier equipment. In most cases, external accessories (such as Blu-ray players or gaming consoles) that were previously connected directly to the TV would now be connected to the amplifier via HDMI, and a separate HDMI cable would then be connected between the TV and the AV amplifier.
This system then allows the Surround/AV amplifier to process the surround channels and correctly align the video and audio timing. If your Surround/AV amplifier supports HDMI ARC (Audio Return Channel), then the HDMI ARC compliant cable connecting the amplifier and TV must be connected to the HDMI 1 input on the TV, otherwise a separate audio connection (either analogue or coaxial digital) would also be required between the TV and the AV amplifier.
Refer to the user manual of your AV amplifier for details on its specific cabling requirements.
Due to technical differences between equipment manufacturers, HDMI ARC operation may not be possible in some installations.

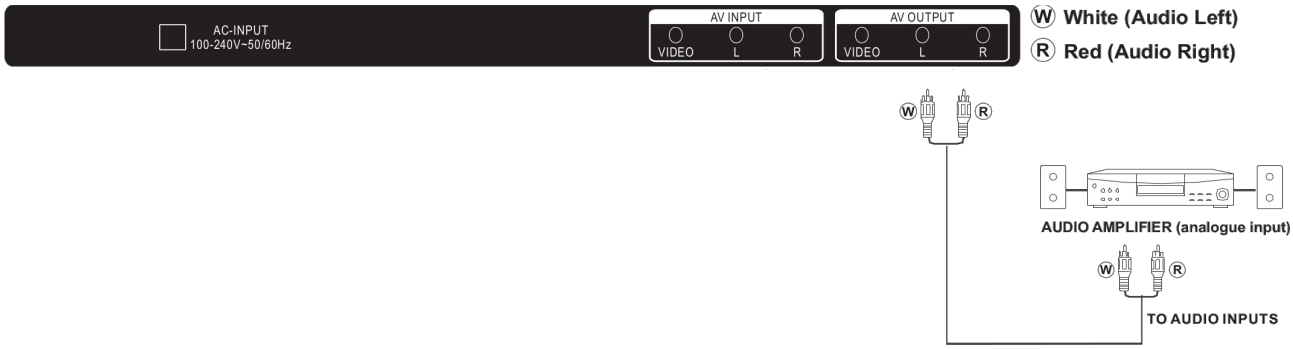
AV (Audio/Video)

This TV provides an AV input and AUDIO output using line-level analogue stereo Audio and composite format Video signals for compatibility with earlier accessory devices (eg. VCRs, CRT TVs, basic gaming consoles etc).



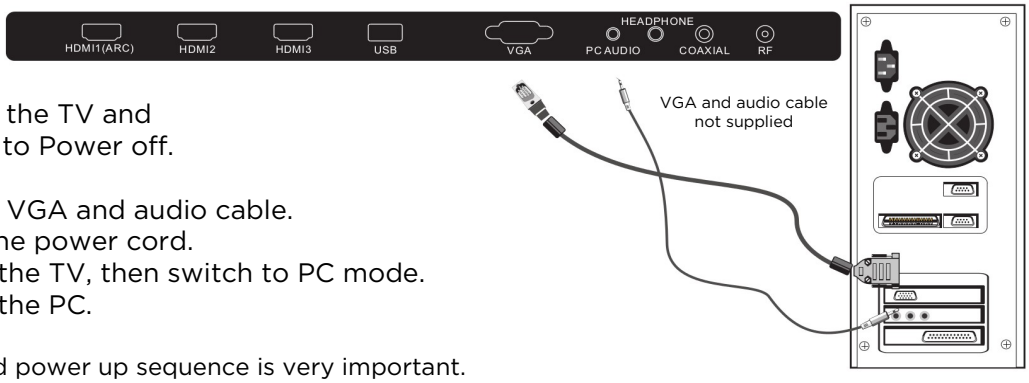
Audio

For installations where you have an existing stereo system and wish to improve your listening experience, connect a stereo RCA cable between the AUDIO output R/L sockets on this TV and the appropriate line-level inputs (eg. AUX input) on your amplifier.
Note: Take care when powering up your TV/Amp combination, as they may be a click or pop sounds on the audio output of the TV during its powering up/down phase that can be amplified by your sound system. It is highly recommended that the TV is first powered up, then once the screen is active you power up the amplifier. When powering down the TV/Amp system, turn the amplifier off first, then switch the TV back to its standby state.



PC Connections

This TV provides an analogue VGA input (15pin) for connection to various desktop or laptop computers. Refer to your computer's User Manual or support website to determine if your computer may be compatible, and what connection cabling may be needed.



Steps
Be sure that both the TV and computer are set to Power off.

1. Connect a VGA and audio cable.
2. Connect the power cord.
3. Power on the TV, then switch to PC mode.
4. Power on the PC.

This connection and power up sequence is very important. Also, for higher resolution applications, the use of a high quality shielded VGA cable is recommended.

Preset Modes

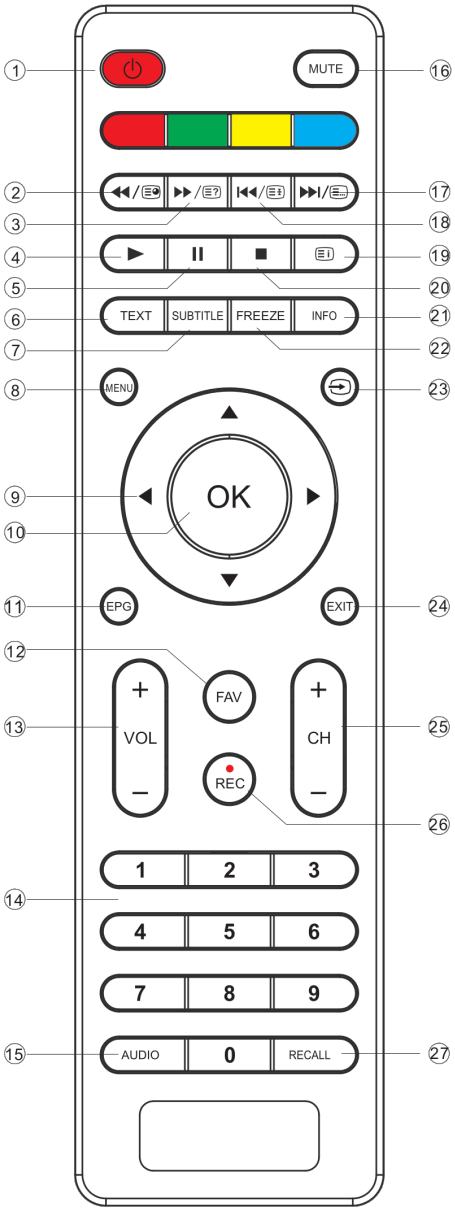
	RESOLUTION	V.Freq (Hz)	H.Freq (kHz)
1	720 x 400	70	31.47
2	640 x 480	60	31.47
3	800 x 600	56	35.16
4	800 x 600	60	37.88
5	800 x 600	72	48.08
6	1024 x 768	60	48.36
7	1024 x 768	70	56.48

The above resolutions are the only ones guaranteed to be supported. Other resolutions may be supported, but this must be assessed by the user on a case-by-case basis. This is subject to the limitations of the computer's video card.

Adjustable Modes

While this TV may support higher resolutions through both the VGA and HDMI inputs, such operation is dependant on the capabilities of the attached PC (including it's graphics card, system set-up and operating system), as well as the user's ability to adjust the PC's settings for optimum screen performance. Some PC graphics cards will not correctly identify the TVs capabilities and hence will only allow lower resolution screen displays.

Remote Control

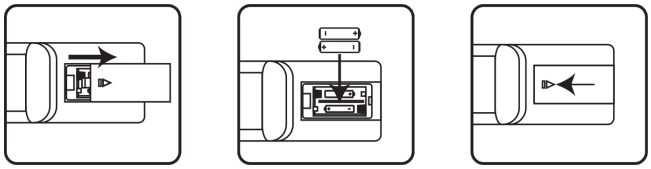


1:**POWER**: To set the TV to Standby or Power On modes.
2:◀◀/ :In USB mode, used as fast reverse key; press repeatedly to speed up operation.
3:▶▶/ : In USB mode, used as fast forward key; press repeatedly to speed up operation.
4: ▶: Press the Play Button in USB mode to begin or continue Playback.
5: ⏸ : Press the Pause Button to pause play in USB mode.
6:**TEXT**:To enter or exit TELETEXT.
7: **SUBTITLE**: To turn on subtitles in DTV mode.
8 : **MENU**: Displays the main on-screen menus.
9 :**CURSOR**: To move within the menu.
10:**OK**: Confirms selection.
11:**EPG**: To display information about the program being viewed and what's on next in DTV mode.
12:**FAV**: To access your favourite channels list in TV or DTV mode.
13:**VOL+/-** : To adjust sound level.
14:**NUMERIC KEY**: For direct access to channels.
15:**AUDIO**: To select the available audio language of TV programs .
16:**MUTE**: To disable or enable the speaker sound output.
17: ▶▶I/ : In USB mode, used as next key, in teletext mode used as list key.
18: I◀◀/ : In USB mode, used as previous key, in teletext mode used as hold key.
19: : In teletext mode used as index. In DTV mode, displays the Recorded List.
20: ■ : Press to stop play in USB mode.
21:**INFO**: To display the program information of the DTV show you are watching, press the Info button.
22:**FREEZE:** Press to freeze the picture you are watching.
23: : Press to display and select the available video input sources.
24:**EXIT**: To return to the previous menu or exit menu.
25:**CH+/CH-**: To access the next or previous channels.
26:**REC**: Press to record the TV program you are watching in DTV mode
27:**RECALL**: DTV Mode: RECALL: Jumps to last channel viewed.

Battery Installation

The remote control requires two AAA batteries. Below are steps to assist you with replacing batteries.

1. Open the back cover of the battery compartment.
2. Install the batteries into the battery tray. There are +/- polarity markings on the compartment. Please ensure the polarities are correct.
3. Close the battery cover.



Getting Started

Once you have connected your TV antenna and other AV playback equipment (eg. CD, DVD, Blu-ray player) to the appropriate input sockets on the rear and side of the TV, you will need to be comfortable with selecting several basic operations before setting up your TV using the Menu system.

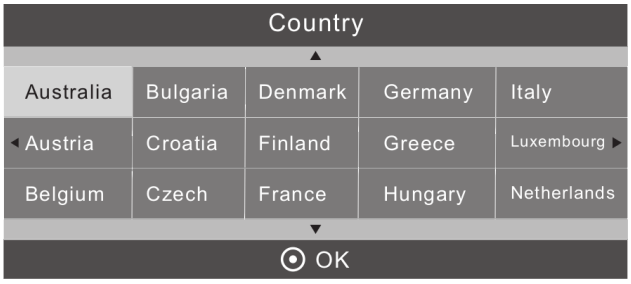
Firstly, the TV has two power modes – Standby and On. In standby mode, the TV is powered up, but awaits a "Power On" command from either the Remote Control or from the Standby push-button located on the lower right-hand side of the TV.

To switch the TV from off into Standby mode, activate the main On/Off rocker switch located at the bottom mid-right side of the TV and wait for the Red power indicator on the bottom right of the TV to light up. Then press the red power button on the remote control to fully activate the TV (ie move from Standby to On mode). The power LED on the front of the TV will change from Red to a blank colour when the TV is fully powered up, and after approximately 10 seconds the screen will become active and can be commanded using the remote control.

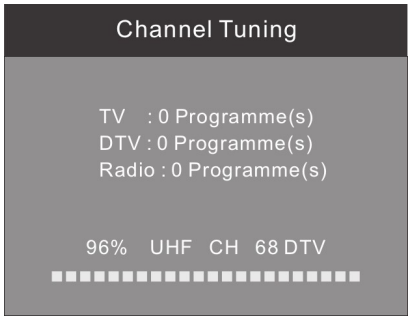
First Powering on the TV

When you first power up your TV (or reset the TV to its factory settings), it will automatically enter the TV auto tuning mode. This where the TV searches for available TV stations and stores the station details it finds. Make sure the TV antenna is connected before proceeding with this operation.

By default, the TV will offer a language selection (defaulting to English) so press the OK button to confirm your selection. (Please note the instructions in this manual will follow the English terms for menu settings). The OK button is located in the middle of the cursor arrow button area of the remote control.



The TV will then offer a selection of countries, with Australia as the pre-set option. Again press the OK button to confirm this selection. Your TV will now scan through all analogue (ATV) and digital (DTV) stations. Australia does not have any current analogue stations running. This process takes several minutes, and once completed the TV will skip to the first DTV program.



The "radio" channels found are sound-only services provided by some TV stations. The TV unit itself does not receive DAB+Digital Radio broadcasts.

Menu Settings

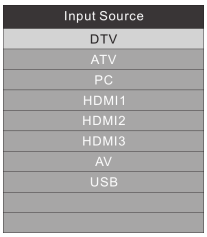
Using the Main Menus

Once the TV has run through the Auto Tune mode and found the available TV stations, you will then need to know how to select the relevant input you want (eg. DTV, AV, HDMI etc) and also how to select and adjust the various menus that allow you to tailor the operation of the TV to suit you application.

The following pages marked “menu settings” will cover the usage and settings of the various menus in more detail. Please read them carefully to gain the most benefit from your TV.

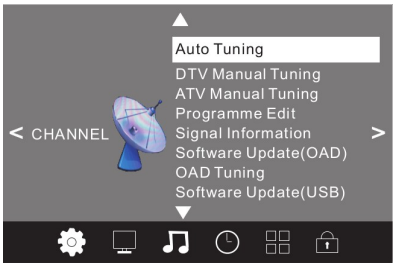
Firstly, on the upper-middle section of the remote control are the main cursor selector arrows with the OK button in the middle of them. Directly above and to the left of the cursor arrows is the Main Menu selector button, which displays the Main Menus on the TV's screen. In the following section of the User Manual, when the operation of the options in the Main Menus are being described, you first need to press the Main Menu button to activate the Menu function, then press the Left or Right cursor arrow buttons to select the relevant menu, and the UP or DOWN cursor arrow buttons to move within the options inside each menu. If at any time you mis-select a menu or setting, press the Exit button (located on the bottom right-hand side of the cursor arrow buttons) to exist the Menu setting.

To access the Input Source menu where you can select ATV or DTV reception, plus access signals from your connected audio/video devices (eg. AV composite video, HDMI or PC VGA), press the Input Source button located at the top right-hand side of the cursor selector arrow section of the remote control. Once the Input Source menu appears, use the UP or DOWN cursor arrow keys to select the desired input, then press the OK button.



Channel Menu

The first item on the MENU is the Channel Menu (for DTV services only. Analogue signals no longer operate in Australia).



Auto Tuning

When Auto Tuning is manually selected via the Channel Menu (rather than when the TV is first powered On or reset), you will first need to select the Tune Type. You can select between ATV, DTV or DTV+ATV searching.

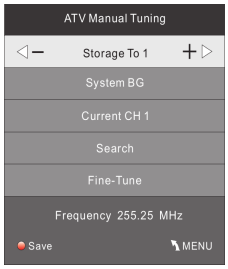
Press ◄► to select the search type, then press ▲▼◄► to select the country (eg. Australia), then press the OK button to start auto tuning. All channels including ATV, DTV and radio can be tuned at once if the Tune Type selected is DTV+ATV. Any previously stored channels will be deleted when Auto Tuning is carried out.
After auto tuning, the received will skip to the first DTV station.

DTV Manual tuning

You can select a DTV channel and find out how many programmes are being transmitted on this channel. Press ◄ ► to select the channel, then press OK to search the programs.

Note: The Bad Normal Good bar graph on this screen shows the relative signal intensity during DTV reception only. To obtain more detail regarding the signal quality and strength of a received DTV station, refer to the Signal Information option in this menu.

ATV Manual tuning



Australia no longer uses analogue television stations, so no results will show up when this option is used when the TV is connected to an antenna. This menu is handy, however, if you are using your TV to watch analogue signals from a VCR or other older equipment that uses an RF modulator.
In Australia and New Zealand, select the “BG” sound system.

Program Edit

You can delete, move, skip or FAV most TV programs from the list of TV stations previously located during the initial Auto Tuning process.

- Delete
  Press the teletex red button on the Remote control and the program in the cursor will be deleted from the list of stations. To restore a deleted channel, perform a complete Auto Tune.

- Skip
  Press ▲ ▼ to choose the program, press the blue teletext button on the Remote Control to skip this program from future up/down manual channel selections. The strikethrough symbol will appear to the right side of the program name. If you highlight the skipped program and press the blue button again, you will cancel the skip and the strikethrough symbol will disappear.

- Favourite
  Press ▲ ▼ to choose the program, press the FAV button on the remote control and a heart symbol will appear on the right side of the program name and it will be added to your Favourites List in your TV.
  Choose the FAV program, press the FAV button again and you can cancel the FAV setting and the heart symbol will disappear. Once your Favourite List is created, you can press the FAV key on the remote control during TV reception to quickly access your favourite channels.

Signal Information

Displays the signal information in DTV mode only.

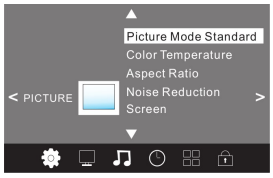
Software Update (OAD)

This setting should be set to OFF.

Software Update (USB)

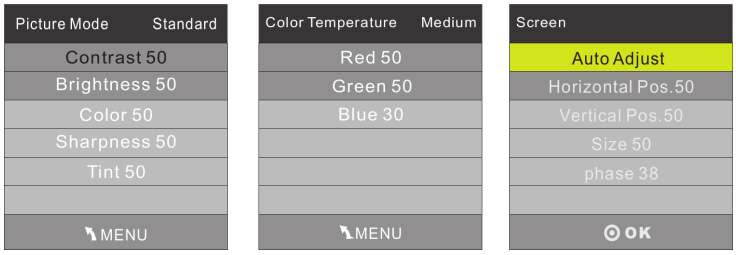
Warning: Do not attempt to use this option unless you have a valid software update for the TV that has been supplied by Kogan.com stored on a compatible USB drive, and the drive is connected to the TV. Remove the antenna cable from the TV's RF port, go to the channel menu, select this option and then press OK to run the update.

Picture Menu



The second item of the MENU is the PICTURE MENU. You can adjust picture effects here, such as contrast, brightness etc..

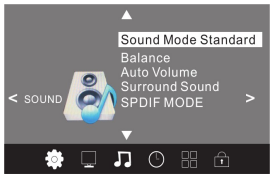
Press ▲▼ to move and press OK to adjust.



NOTE

1. In the Picture Mode sub-menu, the TINT option is available for NTSC systems only.
2. There are four colour temperature modes that can be selected: Medium, Warm, Cool and User adjustment option.
3. The aspect ratio option allows you to select either Auto, or manually select 4:3, 16:9, Zoom1, Zoom2 or Just Scan screen ratios. For general use, leave this setting in the Auto position.
4. The Screen option is only available once the Input Source is set to PC and a compatible signal is present on the VGA input socket. Once selected, you can adjust the horizontal and vertical screen position, size and phase, or select an Auto Adjust mode.
5. For improved video processing, access to the Colour adjustment may not be available in the Picture Mode (User) area when the TV is used with progressive scan video material from externally connected equipment. If adjustment of the Colour control is require3d to correct defective source material, change the video mode of you connected equipment to an interlaced format.
   The TV's default for Picture Mode is the “standard” setting, which is recommended for home viewing.
6. The Noise Reduction option is for areas that still have analogue transmissions. In Australia, this should be set to the OFF position.

Sound Menu



The third item of the MENU is the SOUND MENU.
You can adjust sound effects such as treble, bass, balance etc. Press ▲▼ to move, press OK to adjust.

NOTE

1. There are five Sound modes that can be selected: Standard, Music, Movie, Sports and User. The User option allows you to adjust Bass and Treble sound effects from the TV speakers to suit your listening preferences. These sound modes are not active on the audio outputs of the AUDIO Out socket.
2. The Auto Volume option helps reduce excessive input signal variations that may lead to distorted sound. For most standard installations, this sub-menu should be set to the OFF position.
3. The Surround Sound option generates an artificial widening of the sound stage from the TV. If this sound effect is not suitable for your installation, leave this sub-menu in the OFF position.
4. The SPDIF mode option affects the format of the Coaxial digital audio output from the socket on the rear of the TV. Unless you need to force the output format to PCM, leave this in the auto position.

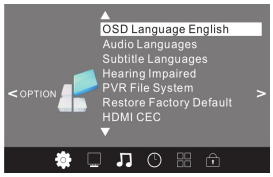
Time Menu

The fourth item of the menu is the TIME MENU. You can adjust the clock, power on/off times, sleep timer etc. Press ▲▼ to move and press OK to adjust.

NOTE

1. The clock time is automatically set by reading the time data that is transmitted by local Digital TV stations.
2. The Off and On timers allow you to program the TV to switch On and Off at specific times that you set. In order for this function to operate, the TV must be powered up (ie mains power switch on the TV is On), and in Standby mode. The Off and On timers have 6 different setting options: Once, Every Day, Mon – Fri, Mon – Sat, Sat – Sun and Sunday. You can set the TV channel and volume settings for most options (except for the Once setting, where the TVs last channel and volume settings are used).
3. The Sleep Timer allows you to select from a range of pre-set times (between 10 minutes and 240 minutes long) that the TV will operate for before returning to the standby state.
4. The Time Zone setting of the TV is initially set using data from local Digital TV stations. You can manually adjust the time zone in the TV if required (eg. For locations where DTV signals are not available).

Options Menu



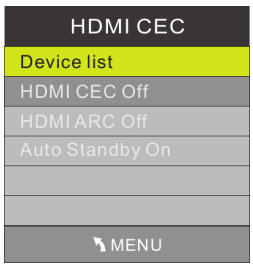
To enter the Option Menu, press the MENU button and then press ◄ or ► buttons to select the Option menu. Once in the Option menu, press ▲ or ▼ to select the settings you wish to adjust. Press the MENU button again to return to the main menu.

NOTE

1. The OSD Language option allows you to select the language used in various TV menus from a wide selection. At the initial setup of the TV, the default language is English and it is recommended that this setting is not changed unless you are fluent in any new language chosen.

2. The Audio Languages and Subtitle Languages options relate to DTV reception only. Some TV channels transmit their audio and subtitles in more than one language, and if this is known in advance, you can select this alternative language. At the initial setup stage, the default language is English, and it is recommended that setting is not changed unless you are fluent in the new language chosen.

3. HDMI CEC (Consumer Electronics Control) allows your TV to share control of some functions with various compatible equipment via an HDMI cable connection. The HDMI cable connecting your equipment to this TV must support both ARC and CEC functionality.
   For example, with HDMI CEC set to “on” in the TVs menu and also on the HDMI connected device that supports CEC (eg. A Blu-ray player), selecting the HDMI input on this TV sends a signal to the Blu-ray player and may switch it On from its standby state (depending on the player's CEC capabilities).

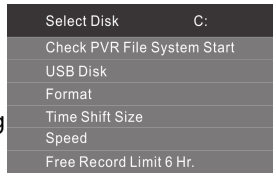


   The HDMI CEC system supports a wide variety of commands, many of which may not be applicable to this TV or any connected HDMI equipment. Refer to the User Manual of your other equipment to check what areas of the CEC commands they may be able to work with. If after selecting the CEC option you find the TV or any other connected equipment behaving unusually (eg. Switching itself back on after you've switched it back to standby mode), your connected equipment may not be compatible with this TV, and the HDMI CEC sub-menu should be set to the Off position.

4. HDMI ARC (Audio Return Channel) may allow compatible equipment connected to the TV (eg. A sound bar) to receive audio from the TV via a “return” channel in a compatible HDMI cable, so that the sound is heard through the sound bar without having to connect a second cable between the two devices. Some other functions, such as use of the TVs remote control to control the volume on the connected equipment may also be applicable.

   HDMI ARC needs to be switched On as part of the HDMI CEC sub-menu in the main Option Menu, and any ARC compatible equipment must only be connected to the HDMI 1 input. As ARC functionality differs widely between different products and brands, if after selecting ARC operation you find the TV or any connected equipment performing unusually, turn off the HDMI ARC function and use the analogue audio output socket or the coaxial digital audio output socket on the TV to connect audio to your Sound Bar or home theatre system.

PVR File System



In the PVR File System sub-menu, you will be asked to format your USB 2.0 flash drive or hard disk for PVR operation. If you are not familiar with the various drive or partition options for storage devices, start this process using a blank (ie. Unused storage device), or one which does not hold sensitive or required data.

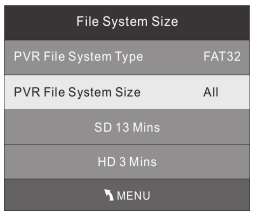
Select Disc

To view and select the USB drive or hard disc that you would like to record to, press the OK button to enter the Select Disk sub-menu and then press ◂ or ▸ buttons on your remote control to select the particular storage device type that is connected to the TV. Press the OK button to return to the PVR File System sub-menu.

Check PVR File System

Press the OK button to start checking the file system of your USB storage or Hard Disk, and check the recording speed capability of the connected device. Once SUCCESS is shown after checking, you will then be able to begin recording or use the Time Shift Function. If FAIL is shown after checking, you will need to format your USB drive or Hard Disc before being able to record or use the Time Shift feature. Use of the High Speed format option is recommended.

Format



When you format your USB flash drive or Hard Disc, any saved data will be lost. This TV primarily supports USB 2.0 flash drives and hard-drives, with its USB socket supporting up to 500mA current drain. USB 3.0 drives (operating in USB 2.0 compatibility mode) may also be usable, but their compatibility will need to be checked on a case-by-case basis.

PVR File System Type

There are two types of supported formats: FAT32 and Hi Speed Format. You can press ◂ or ▸ buttons to choose the type of format. If FAT32 is selected, you will have to format the whole of your USB drive. If Hi Speed Format is selected, you will then be able to press ◂ or ▸ to select the size you wish to use (for example 1GB, 10GB, 20GB... or All). Once a particular size is selected for recording, you will be able to use the remaining space of your USB drive or Hard Disc for other data storage.

WARNING: Please not that no matter what size is selected for recording, all of the data on the allocated partition of the hard disc will be lost after formatting. During Hi-Speed formatting of some USB drives, you may need to select a smaller time shift size than the maximum capacity of the drive, as some storage capacity is used in the PVR set-up process.

Speed

This will show the supported speed of recording, and whether your storage device can support HD DTV recording. Speeds above 5,500kb/s are usually more successful when recording HD TV material.

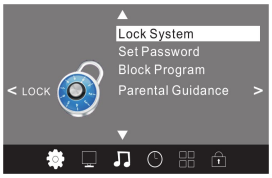
Record Limit

This will show the approximate time you will be able to record to your USB drive or Hard Disc.

FACTORY RESET NOTE

If you wish to reset your TV, please select the Restore Factory Default option. This will clear all settings.

Lock Menu



To enter the LOCK menu, press the MENU button, then press the ◂ or ▸ buttons to select the LOCK menu. The default password is 6666.
Please set a new password that is easy to remember. Follow the onscreen steps to set your new password.

To enter the Lock sub-menu options, select Lock System and press OK. You will be required to enter your 4 digit password (default PIN is 6666), then press OK to select the ON mode. Use the UP/DOWN cursor buttons on the remote to select the areas you wish to adjust for controlled viewing.

Block Program

In this sub-menu, you can select one or more TV channels to be blocked from access until your PIN password is entered. Each time one of these “blocked” channels is selected, the PIN must be entered before the channel can be viewed.

Parental Guidance

In this sub-menu, you can select from a range of Program Classification (eg. G, PG, M etc) that will prevent viewing of DTV channels that are broadcasting material with a classification equal to or above the level you have selected. For example, if you select the PG rating, a PG rated TV program will require a PIN to be entered for viewing, however a G rated program will be able to be viewed normally.
Once the Parental Guidance mode is turned on, you can set viewing restrictions for DTV TV reception only.

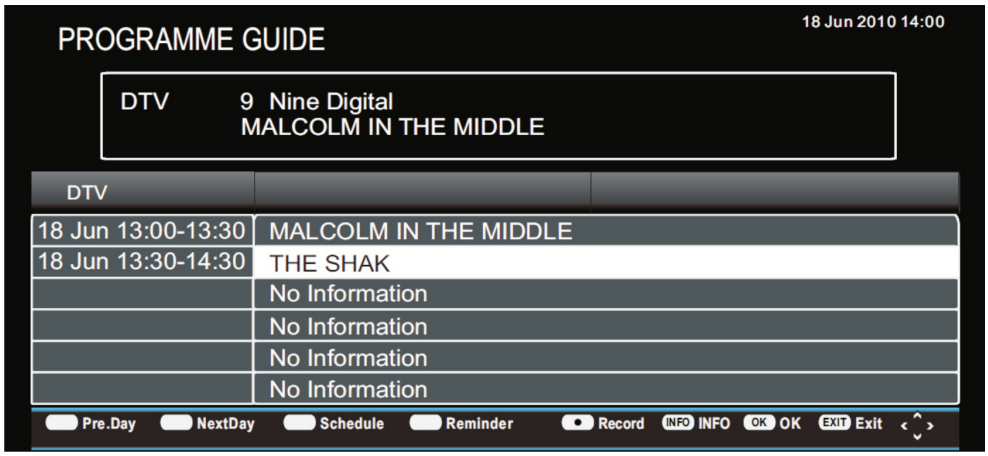
USB Source

To enter the USB SOURCE menu, press the Input Source button on the Remote Control, then select USB. This is where you will be able to view and play various limited low data-rate USB media files such as JPEG, MP3 and AVI formats, or play back recorded DTV programs.

Use the ◂ or ▸ buttons on the remote control to select the file playback type (Photo, music, movie, text), then press OK. You can preview a selected file by highlighting it using the cursor arrows and pressing OK. Press the Play button on the remote control to show it in full-screen size. Press the INFO button to bring up a controls tab at the bottom of the screen, allowing easier control of play, pause, stop and repeat modes. Press the EXIT button repeatedly to progressively return back to the USB menu.

EPG MENU (Electronic Program Guide)

Press the EPG key to enter the EPG menu. The first line displays the current channel number, channel name, event title and current time.
The following line displays all programs that will be played on this channel. Press ▲▼ to select the program you desire.



DTV EPG

In DTV mode, press “Guide” button to enter the Electronic Program Disabled (disabled when there is no signal).

1. Electronic Program Guide information is provided by the broadcaster and displays scheduled programs for the week ahead (depending upon the broadcaster).
2. TV programs of each channel are listed under the time axis. Press ◄► to select the channel and press ▲▼ to highlight the program. The select programs background colour will change to white. Press “INFO” to view detailed information. Press “OK” to select the desired channel.
3. Use the “Reminder” (blue) button to reserve programs. If the TV is in DTV mode, it will automatically turn to the reserved program at the scheduled time. Use “Schedule” (yellow) to look up the reminder list.

- **Prev. Day**: if you press the red key on the remote control, it will show the previous day's programs.
- **Next Day**: If you press the green key on the remote control, it will show the next day's programs.
- **Schedule**: If you press the yellow key on the remote control, it will show the reminder list.
- **Reminder**: If you press the blue key on the remote control, it will show a command window, and you can set the reserve programs.
- **Record**: If you press the record key on the remote control, it will show the RECORDER page.
- **INFO**: You can press the INFO key on the remote control to show information in regards to the program you have chosen.
- **OK**: You can press the OK key on the remote control to select the channel you want to view.
- **Exit**: Once you have selected a channel using the OK key, press the Exit key to view that particular channel.

PVR Operation

Preparing to record programs

Before the PVR function can be used, a suitable USB storage device (USB flash-drive or USB hard-drive) must be connected to the USB socket on the rear side panel of the TV. The USB storage device should only be connected or disconnected when the TV is switched off. The USB PVR function relies on the use of high quality USB drives, with higher speed models likely to provide the best performance. From the Option Menu, enter into the PVR file system and choose “check PVR File System”. Click “OK”, then wait until “Checking” changes to “Success”.

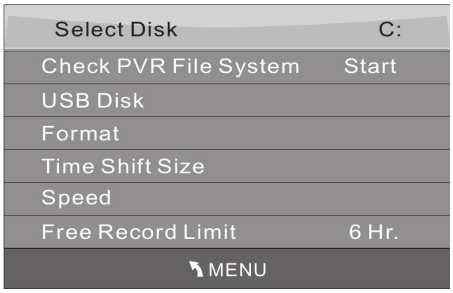
Note: please check the result marked “speed”. If it is “FULL HD support”, that means the speed of your USB device is suitable for time shift and record functions. If not, please format the device to make sure the USB device is capable of handling the recording functions. The default “Free Record Limit” is 6 hours, if the space on the disk is big enough. If the space is not big enough, the record time will be shorter, depending on the capacity of the device. During the “Check PVR File System” checking, please do not take any other operation until finished.

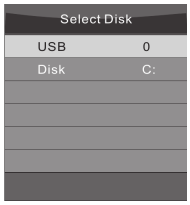
The recordings have to be done from within the TV PVR system. The recordings can only be played in the same TV, and generally not in any other devices (Computer, DVD etc..) that are not compatible with the .TS file format.

In order to carry out any kind of recording, the TV will require you to format the connected USB device to store the recording. The High Speed format option is recommended for better HDTV recording results.

WARNING: WHEN YOU FORMAT THE EXTERNAL USB DEVICE YOU WILL LOSE ALL THE FILES AND INFORMATION ALREADY STORED ON THE DEVICE.

From the OPTION MENU, enter into the PVR File System as shown below:





Select Disk

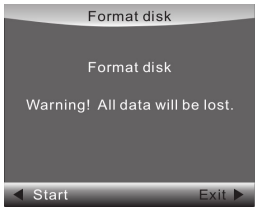
Select which USB drive type to save the recorded file onto, then press OK to return to the PVR menu.

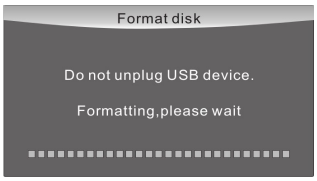
Check PVR File System

Checks if the PVR File System set up will work with your USB Device or not.

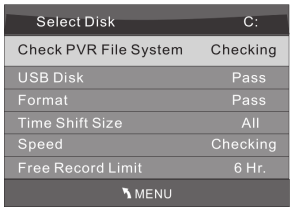
Format

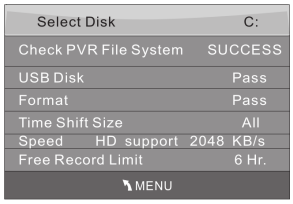
Refer to the details previously given in regards to formatting before using this option for the first time. Once you have selected the type of formatting of your USB storage device, your TV will show various progress screens (as shown overleaf).



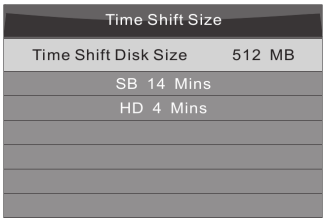


When the Format process has finished, you can then use the “Check PVR File System” option to show the speed ability of your USB storage device. Press EXIT to return to the TV mode.





If you select the “Hi Speed FS” format mode, you can then change the Time Shift memory size. Remember to set the Time Shift size to be smaller than the total capacity of your USB storage device, or else the Speed test may report an error.



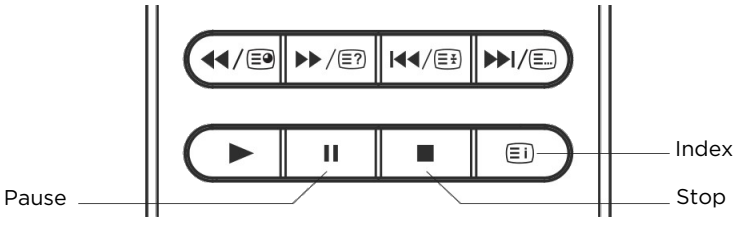
Recording a DTV Program

When viewing a DTV program, press the “REC” button on the remote control and the record control tab will pop up and the PVR will commence recording. Click the “REC” button again and the record control tab will disappear while the “REC” icon will remain on the top left of the screen. It will disappear when you click the “STOP” button on the remote control and the PVR will finish recording.

PVR recording of DTV programs can also be accessed through the EPG, and future recordings can be accessed using the Schedule List option.

Playing back the Recording

In the USB drive, the recorded program will be saved in the folder “_MSTPVR” on the device. To play back the .TS files, use the DMP (Digital Media Player) function, and select Movie as the type of file to play back. Alternatively, press the Index button on the Remote Control to display the Recorded List, which shows the name of the recorded DTV material on the attached USB drive. The order of the recordings can be selected by repeatedly pressing the Index button to view in Program, Channel or Time order.



1. Video may become pixelated if the video bit rate is too high for your USB drive, especially during recordings of high-definition material. If this occurs, try using a faster USB drive, or re-format it using the High Speed Format option.
   Note: this may make it unreadable in other USB devices.

2. The USB PVR function relies on the use of high quality USB 2.0 drives, and as such may not be compatible with some specific USB devices, for example, low-cost USB flash-drives with slower memory components, and some USB 3.0 flash-drives (operating in USB 2.0 mode) may not be compatible with this TV. Also, USB hard-drives need to be low power versions (eg. Portable types) or must be used with an external power source to prevent overloading the USB socket on the TV.

Timeshift Function

Preparing to record the program

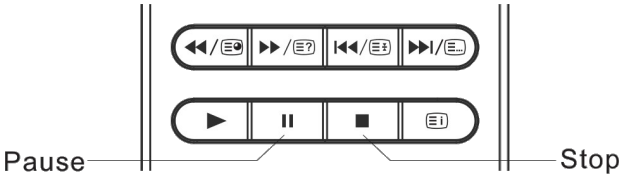
This TV allows you to pause and record the currently watched digital TV program to a USB storage device, and to resume viewing at the point where it was paused.
Note: formatting a USB 2.0 storage device will be required. Save any original data on your USB device to another device (eg your PC) before formatting. All of the data stored on the USB device will be erased after formatting.

USB Drive Storage Format

Follow the format instructions in this manual to format the USB device and allocate the amount of space for the Time Shift function.
Note: the format process will take at least 2 minutes depending on the capacity of your USB device. Please do not turn off the power or remove the USB device during formatting. The High Speed format option is recommended for better HDTV recording results.
During formatting, a speed test will be done on the USB device. If it fails, it means the USB device may not support Time Shift functionality.

Record a paused DTV program to USB storage devices

1. While in the DTV input source, check that your USB storage device is plugged into the USB port on the side of your TV.
2. Select a DTV channel, then press PAUSE to start the Time Shift function. The TV program will be paused on screen; the Time Shift OSD appears and the recording commences. Press PLAY to playback the time-paused material.
3. Press STOP to stop the Time Shift function and stop recording the program.



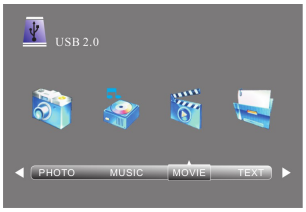
Note: please do not unplug the USB storage device when the Time Shift function is activated, as damage to the recorded file or the USB storage device itself may occur. Approximately 4GB of memory will buffer about 30-40 minutes of DTV material.

1. Video may become pixelated during recordings when the video bitrate capability of your USB device is too low. If this occurs, try using a higher speed USB drive, or reformat the drive using the High speed format option.

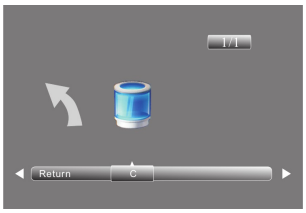
2. The USB Timeshift function relies on the use of high quality USB 2.0 drives, and as such may not be compatible with some specific USB devices.

Digital Media Player (DMP)

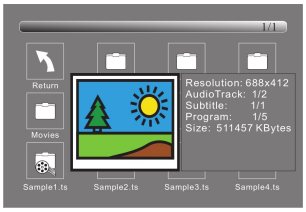
To play and view limited types of low data-rate USB media files (such as JPEG, MP3 or AVI formats), use the USB Source that is accessible from the Input button on the Remote Control. For playback of high data-rate media files, the use of an external Media Player (not supplied) will be required.



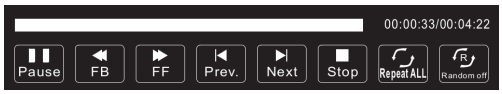
Please make sure that the USB device is plugged into the USB socket on the side of the TV. There are four media types that can be selected, such as Photo, Music, Movie and Text. Select the type of media item be pressing ◂▸, then press **OK** to enter the disk selection menu.



Press the ◂▸ cursor buttons to select the correct disk, then press OK to display the media files and folder list, or press EXIT to return to the media type selection menu. Once you have selected the required media type and drive details, you can view the various files and folders on screen.

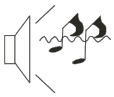
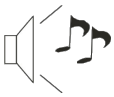
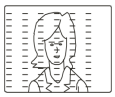
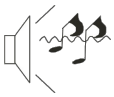
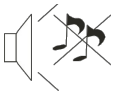
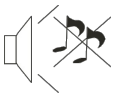
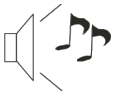
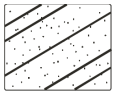
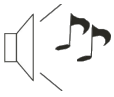


Select the media by pressing ◂▸ or ▴▾, then press **OK** and the preview frame will pop up if the file is playable. Press the ▸ play button to play the media file in full screen mode. When the media file (photo, music, movie or text) is playing, press the **OK** or **INFO** button to display the control bar at the bottom of the screen.



In the control bar, press ◂▸ to select the function icon, then press the **OK** button to confirm the function. Press ▾ or EXIT to exit the control bar.

Troubleshooting

Issue / Symptom		Suggested Solution
Picture	**Audio**	
Snow	 Noise	Check antenna position, direction and connection.
Ghosting	 Normal Audio	Check antenna position, direction and connection.
 Interference	 Noise	Electronic equipment, car/ motorcycle, fluorescent lights
Normal Picture	 Mute	Volume (check if mute is activated or if the audio systems are not correct)
No Picture	 Mute	Power cord not inserted Contrast/brightness too low Press Power/Stand-by
No Colour	 Normal Audio	Colour control
 Noise	 Normal/weak	Retune channels
No Colour	Noise	TV System
Mosiac/broken	Distorted	Antenna loose Weak DTV signal

Please turn on the main power at the bottom mid right-hand side of the TV before attempting to turn on the TV via the Standby Button or the Remote Control.

Product Specifications

LED	
Viewing Picture Size (Diagonal)	32” (80cm)
Resolution	1366 x 768
Aspect Ratio	16 : 9
Display Colours	16.7M
Brightness (Typical)	220 cd/m^2
Contrast Ratio	1400 : 1
Response Time	7ms
Viewing Angle (max)	160° (H) / 150° (V)
TV	
TV System	Digital TV: DVB-T
DVB-T Decode	MPEG2
DVB-T de-modulation	Demodulator: COFDM OFDM MOD: 2K, 8K FFT, SFN and MFN Packed Carriers: 2K/8K Guard Interval: ¼, 1/8, 1/16, 1/32
Terminals	
HDMI Inputs	3
VGA Input (15 pin D-type)	1
Audio Input (RCA sockets)	1 (L+R)
PC Audio Input (3.5mm socket)	1
Composite Video Input (RCA)	1
Composite Video Output (RCA)	1
Audio Output (RCA sockets)	1 (L+R)
Headphone Output (3.5mm socket)	1 (L+R)
USB (media play, software update) input	1
Coaxial digital audio output	1
Other	
Input voltage	100V-240V ~ 50/60Hz
Power consumption	45W
Audio Output Power	2 x 8W
Dimensions WxHxD (approximate)	732 x 472 x 200mm (with stand fitted)